

FILE 'HOME' ENTERED AT 11:14:52 ON 19 OCT 2007

=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 11:15:08 ON 19 OCT 2007

69 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0* with SET DETAIL OFF.

=> ultrafiltration and conductivity and mS/cm and diafiltration

- 0* FILE ADISCTI
- 0* FILE ADISINSIGHT
- 0* FILE ADISNEWS
- 0* FILE AGRICOLA
- 0* FILE ANABSTR
- 0* FILE ANTE
- 0* FILE AQUALINE
- 0* FILE AQUASCI
- 0* FILE BIOENG
- 0* FILE BIOSIS
- 0* FILE BIOTECHABS
- 0* FILE BIOTECHDS
- 0* FILE BIOTECHNO
- 0* FILE CABA
- 0* FILE CAPLUS
- 0* FILE CEABA-VTB
- 0* FILE CIN
- 0* FILE CONFSCI
- 0* FILE CROPB
- 0* FILE CROPU
- 0* FILE DDFB
- 0* FILE DDFU
- 0* FILE DGENE
- 0* FILE DISSABS
- 0* FILE DRUGB
- 0* FILE DRUGMONOG2
- 0* FILE DRUGU
- 0* FILE EMBAL
- 0* FILE EMBASE
- 0* FILE ESBIODASE
- 0* FILE FOMAD
- 0* FILE FOREGE
- 0* FILE FROSTI

33 FILES SEARCHED...

- 0* FILE FSTA
- 0* FILE GENBANK
- 0* FILE HEALSAFE
- 0* FILE IFIPAT
- 0* FILE IMSDRUGNEWS
- 0* FILE IMSPRODUCT
- 0* FILE IMSRESEARCH
- 0* FILE KOSMET
- 0* FILE LIFESCI
- 0* FILE NTIS

0* FILE NUTRACEUT
 0* FILE OCEAN
 0* FILE PASCAL
 0* FILE PCTGEN
 0* FILE PHAR
 0* FILE PHARMAML
 0* FILE PHIC
 0* FILE PHIN
 0* FILE PROMT
 0* FILE PROUSDDR
 0* FILE PS
 0* FILE RDISCLOSURE
 0* FILE SCISEARCH
 0* FILE SYNTHLINE
 0* FILE USGENE
 0* FILE USPATFULL
 0* FILE USPATOLD
 0* FILE USPAT2
 0* FILE VETB
 0* FILE VETU
 0* FILE WATER
 0* FILE WPIDS
 0* FILE WPIFV
 0* FILE WPINDEX

0 FILES HAVE ONE OR MORE ANSWERS, 69 FILES SEARCHED IN STNINDEX

L1 QUE ULTRAFILTRATION AND CONDUCTIVITY AND MS/CM AND DIAFILTRATION

=> ultrafiltration and conductivity and "mS/cm" and diafiltration

1 FILE ANTE
 1 FILE BIOSIS
 1 FILE BIOTECHABS
 1 FILE BIOTECHDS
 1 FILE CABA
 1 FILE CAPLUS
 1 FILE ESBIOWASE

33 FILES SEARCHED...

1 FILE IFIPAT
 1 FILE PASCAL
 1 FILE SCISEARCH
 201 FILE USPATFULL
 38 FILE USPAT2
 10 FILE WPIDS
 10 FILE WPINDEX

14 FILES HAVE ONE OR MORE ANSWERS, 69 FILES SEARCHED IN STNINDEX

L2 QUE ULTRAFILTRATION AND CONDUCTIVITY AND "MS/CM" AND DIAFILTRATION

=> d rank

F1	201	USPATFULL
F2	38	USPAT2
F3	10	WPIDS
F4	10	WPINDEX
F5	1	ANTE
F6	1	BIOSIS
F7	1	BIOTECHABS
F8	1	BIOTECHDS
F9	1	CABA
F10	1	CAPLUS
F11	1	ESBIOWASE
F12	1	IFIPAT
F13	1	PASCAL

=> file wpids wpindex ante biosis biotechabs caba caplus ifipat scisearch pascal		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	3.15	3.36

FILE 'WPIDS' ENTERED AT 11:18:11 ON 19 OCT 2007
 COPYRIGHT (C) 2007 THE THOMSON CORPORATION

FILE 'WPINDEX' ACCESS NOT AUTHORIZED

FILE 'ANTE' ENTERED AT 11:18:11 ON 19 OCT 2007
 COPYRIGHT (C) 2007 Cambridge Scientific Abstracts (CSA)

FILE 'BIOSIS' ENTERED AT 11:18:11 ON 19 OCT 2007
 Copyright (c) 2007 The Thomson Corporation

FILE 'BIOTECHABS' ACCESS NOT AUTHORIZED

FILE 'CABA' ENTERED AT 11:18:11 ON 19 OCT 2007
 COPYRIGHT (C) 2007 CAB INTERNATIONAL (CABI)

FILE 'CAPLUS' ENTERED AT 11:18:11 ON 19 OCT 2007
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'IFIPAT' ENTERED AT 11:18:11 ON 19 OCT 2007
 COPYRIGHT (C) 2007 IFI CLAIMS(R) Patent Services (IFI)

FILE 'SCISEARCH' ENTERED AT 11:18:11 ON 19 OCT 2007
 Copyright (c) 2007 The Thomson Corporation

FILE 'PASCAL' ENTERED AT 11:18:11 ON 19 OCT 2007
 Any reproduction or dissemination in part or in full,
 by means of any process and on any support whatsoever
 is prohibited without the prior written agreement of INIST-CNRS.
 COPYRIGHT (C) 2007 INIST-CNRS. All rights reserved.

=> ultrafiltration and conductivity and "mS/cm" and diafiltration
 L3 17 ULTRAFILTRATION AND CONDUCTIVITY AND "MS/CM" AND DIAFILTRATION

=> dup remove
 ENTER L# LIST OR (END):13
 PROCESSING COMPLETED FOR L3
 L4 12 DUP REMOVE L3 (5 DUPLICATES REMOVED)

=> d ti 1-12

L4 ANSWER 1 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Formulation containing recombinant human erythropoietin of low sialic acid
 content, useful for treating e.g. cerebrovascular, psychiatric and
 neurodegenerative diseases by nasal administration

L4 ANSWER 2 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Preparing milk fraction that contains transforming growth factor-beta,
 useful for treating chronic inflammatory diseases, particularly psoriasis,
 and autoimmune disease

L4 ANSWER 3 OF 12 ANTE COPYRIGHT 2007 CSA on STN DUPLICATE 1

TI Saltbush (Atriplex lampa) leaf protein concentrate by
ultrafiltration for use in balanced animal feed formulations

L4 ANSWER 4 OF 12 IFIPAT COPYRIGHT 2007 IFI on STN
TI PROCESS FOR CONCENTRATION OF MACROMOLECULES

L4 ANSWER 5 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Concentrating a macromolecule from an aqueous solution of the
macromolecule and an organic polymer (e.g. a media supplement) comprises
two ultrafiltration steps with adjustment of retentate
conductivity after the first ultrafiltration step

L4 ANSWER 6 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Large-scale purification of Gc-globulin useful for treating or preventing
congenital or acquired Gc-globulin deficiency or malfunction, or cancer,
involves ion exchange chromatography and ultra- and/or
diafiltration

L4 ANSWER 7 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Preparation of nanoparticle dispersion of zinc sulfide doped with
manganese ions, used for an electroluminescent device, involves performing
precipitation by mixing appropriate aqueous solutions that contain
triazole or diazole compounds

L4 ANSWER 8 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Preparation of copper-doped zinc sulfide particle dispersion involves
performing precipitation by mixing zinc salt, sulfide, and citrate or
ethylenediaminetetraacetic acid complex of copper ions, dissolved in
aqueous solutions

L4 ANSWER 9 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Preparation of nanoparticle dispersion of (doped) metal chalcogenide for
electroluminescent devices, comprises performing diafiltration
and/or ultrafiltration washing of predispersion of metal cation
and chalcogenide anion

L4 ANSWER 10 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Isolation of proteins in crystalline form from solutions e.g.,
fermentation broths - by treating the solution with a water-miscible
organic solvent, especially methanol, ethanol, 2-propanol or acetone

L4 ANSWER 11 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Pre-purification of cell-free culture broth containing peptide or protein
- by ultrafiltration, used for de-salting and concentrating
yeast

L4 ANSWER 12 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Thrombopoietin purification by removal of protein contaminants using
hydroxyapatite - provides homogenous preparation of thrombopoietin
substantially free of contaminants

=> a ab bib 11, 9, 6, 5, 3

L5 0 A AB BIB 11, 9, 6, 5, 3

=> ultrafiltration and conductivity and "mS/cm" and diafiltration

L6 17 ULTRAFILTRATION AND CONDUCTIVITY AND "MS/CM" AND DIAFILTRATION

=> dup remove

ENTER L# LIST OR (END):16

PROCESSING COMPLETED FOR L6

L7 12 DUP REMOVE L6 (5 DUPLICATES REMOVED)

=> d ti 1-12

L7 ANSWER 1 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Formulation containing recombinant human erythropoietin of low sialic acid content, useful for treating e.g. cerebrovascular, psychiatric and neurodegenerative diseases by nasal administration

L7 ANSWER 2 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Preparing milk fraction that contains transforming growth factor-beta, useful for treating chronic inflammatory diseases, particularly psoriasis, and autoimmune disease

L7 ANSWER 3 OF 12 ANTE COPYRIGHT 2007 CSA on STN DUPLICATE 1

TI Saltbush (Atriplex lampa) leaf protein concentrate by ultrafiltration for use in balanced animal feed formulations

L7 ANSWER 4 OF 12 IFIPAT COPYRIGHT 2007 IFI on STN

TI PROCESS FOR CONCENTRATION OF MACROMOLECULES

L7 ANSWER 5 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Concentrating a macromolecule from an aqueous solution of the macromolecule and an organic polymer (e.g. a media supplement) comprises two ultrafiltration steps with adjustment of retentate conductivity after the first ultrafiltration step

L7 ANSWER 6 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Large-scale purification of Gc-globulin useful for treating or preventing congenital or acquired Gc-globulin deficiency or malfunction, or cancer, involves ion exchange chromatography and ultra- and/or diafiltration

L7 ANSWER 7 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Preparation of nanoparticle dispersion of zinc sulfide doped with manganese ions, used for an electroluminescent device, involves performing precipitation by mixing appropriate aqueous solutions that contain triazole or diazole compounds

L7 ANSWER 8 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Preparation of copper-doped zinc sulfide particle dispersion involves performing precipitation by mixing zinc salt, sulfide, and citrate or ethylenediaminetetraacetic acid complex of copper ions, dissolved in aqueous solutions

L7 ANSWER 9 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Preparation of nanoparticle dispersion of (doped) metal chalcogenide for electroluminescent devices, comprises performing diafiltration and/or ultrafiltration washing of predispersion of metal cation and chalcogenide anion

L7 ANSWER 10 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Isolation of proteins in crystalline form from solutions e.g.,
fermentation broths - by treating the solution with a water-miscible
organic solvent, especially methanol, ethanol, 2-propanol or acetone

L7 ANSWER 11 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Pre-purification of cell-free culture broth containing peptide or protein
- by ultrafiltration, used for de-salting and concentrating
yeast

L7 ANSWER 12 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

TI Thrombopoietin purification by removal of protein contaminants using
hydroxyapatite - provides homogenous preparation of thrombopoietin
substantially free of contaminants

=> d ab bib 11, 9, 6, 5, 3

L7 ANSWER 11 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

AB EP 775710 A1 UPAB: 20050517
Prepurification of a cell-free culture broth containing a peptide or
protein is effected by ultrafiltration on a membrane with a
cutoff that is 2-5 times the molecular weight of the peptide or protein to
be retained.
USE - The process is used especially for desalting and concentrating
recombinant yeast culture broths containing the thrombin inhibitor
hirudin.
ADVANTAGE - High peptide/protein retentions can be achieved, e.g.
93.7% in the case of hirudin.

AN 1997-283082 [26] WPIDS

DNC C1997-091147 [26]

TI Pre-purification of cell-free culture broth containing peptide or protein
- by ultrafiltration, used for de-salting and concentrating
yeast

DC B04; D16

IN MOELLER J; MOLLER J; RICHARD F

PA (AVET-C) AVENTIS PHARMA DEUT GMBH; (FARH-C) HOECHST AG

CYC 22

PIA EP 775710 A1 19970528 (199726)* DE 5[0]
DE 19543737 A1 19970528 (199727) DE 3[0]
AU 9671932 A 19970529 (199730) EN
JP 09173793 A 19970708 (199737) JA 3[0]
CA 2191023 A 19970525 (199739) EN
KR 97027104 A 19970624 (199826) KO
US 6103502 A 20000815 (200041) EN
AU 726264 B 20001102 (200062) EN
JP 3218193 B2 20011015 (200164) JA 3

ADT EP 775710 A1 EP 1996-118021 19961111; DE 19543737 A1 DE 1995-19543737
19951124; AU 9671932 A AU 1996-71932 19961122; AU 726264 B AU 1996-71932
19961122; CA 2191023 A CA 1996-2191023 19961122; JP 09173793 A JP
1996-311542 19961122; JP 3218193 B2 JP 1996-311542 19961122; KR 97027104 A
KR 1996-56619 19961122; US 6103502 A US 1996-755114 19961122

FDT AU 726264 B Previous Publ AU 9671932 A; JP 3218193 B2 Previous Publ JP
09173793 A

PRAI DE 1995-19543737 19951124

L7 ANSWER 9 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

AB EP 1231253 A1 UPAB: 20060120
NOVELTY - Preparation of nanoparticle dispersion of (doped) metal
chalcogenide comprises:
(1) performing a precipitation by mixing aqueous solutions of
cations, chalcogenide anions and optionally a salt of the dopant, to form

a predispersion; and

(2) performing a diafiltration and/or ultrafiltration washing step on predispersion in the presence of a compound capable of preventing agglomeration of the nanoparticles.

USE - For use in electroluminescent devices.

ADVANTAGE - The method forms metal chalcogenide nanoparticle dispersions which can be washed and concentrated without the occurrence of excessive agglomeration.

AN 2002-659465 [71] WPIDS

DNC C2002-185503 [71]

DNN N2002-521166 [71]

TI Preparation of nanoparticle dispersion of (doped) metal chalcogenide for electroluminescent devices, comprises performing diafiltration and/or ultrafiltration washing of predispersion of metal cation and chalcogenide anion

DC E32; L03; U14

IN ANDRIESSEN H

PA (GEVA-C) AGFA-GEVAERT; (GEVA-C) AGFA-GEVAERT NV; (ANDR-I) ANDRIESSEN H

CYC 28

PIA EP 1231253 A1 20020814 (200271)* EN 9[0]

US 20020144646 A1 20021010 (200274) EN

JP 2002321915 A 20021108 (200305) JA 5

US 6911081 B2 20050628 (200542) EN

ADT EP 1231253 A1 EP 2001-10 20010207; US 20020144646 A1 Provisional US 2001-271004P 20010223; US 6911081 B2 Provisional US 2001-271004P 20010223; US 20020144646 A1 US 2002-53104 20020124; US 6911081 B2 US 2002-53104 20020124; JP 2002321915 A JP 2002-28021 20020205

PRAI EP 2001-10 20010207

L7 ANSWER 6 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

AB US 20030036638 A1 UPAB: 20050904

NOVELTY - Large-scale purification (M) of Gc-globulin (vitamin-D binding protein), comprising ion exchange chromatography and ultra-and/or diafiltration, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a purified Gc-globulin product (I) obtained by (M);

(2) a preparation (II) comprising (I); and

(3) a diagnostic method for determining the amount of free Gc-globulin and the amount of actin-Gc-globulin from a blood sample by crossed immunoelectrophoresis or competitive enzyme linked immunosorbent assay (ELISA).

ACTIVITY - Cytostatic.

No biological data given.

MECHANISM OF ACTION - None given.

USE - (I) or (II) is useful for treating or preventing diseases in mammals, where the disease results in low serum Gc-globulin concentrations or absence of Gc-globulin, for treating or preventing congenital or acquired Gc-globulin deficiency or malfunction, against intoxication with medicinal products such as paracetamol, in diseases related to vitamin-D deficiency or intoxication, and for treating cancers (claimed).

(I) is useful in medicine, and in therapy for patients with circulatory disorders and complications. (I) is useful for producing a deglycosylated Gc-globulin product which is useful as an adjuvant or for inducing antitumor effects. The deglycosylated product is useful for treating cancer such as breast, colon, stomach, lung or skin cancer.

ADVANTAGE - (M) is a simple method, and gives high yield and Gc-globulin of high purity. The Gc-globulin solution produced by (M) is a virus safe solution.

AN 2003-615766 [58] WPIDS

CR 2005-121385

DNC C2003-167898 [58]

DNN N2003-490316 [58]

TI Large-scale purification of Gc-globulin useful for treating or preventing

congenital or acquired Gc-globulin deficiency or malfunction, or cancer, involves ion exchange chromatography and ultra- and/or diafiltration

DC B04; D16; P34; S03
IN HOUEN G; JOERGENSEN C S; JORGENSEN C S; LAURSEN I
PA (STAT-N) STATENS SERUM INST
CYC 96
PIA US 20030036638 A1 20030220 (200358)* EN 14[0]
WO 2003016348 A2 20030227 (200358) EN
EP 1419177 A2 20040519 (200433) EN
AU 2002321012 A1 20030303 (200452) EN
US 6806355 B2 20041019 (200469) EN
JP 2005508892 W 20050407 (200524) JA 31
ADT US 20030036638 A1 Provisional US 2001-315124P 20010827; US 20030036638 A1
US 2002-217787 20020813; AU 2002321012 A1 AU 2002-321012 20020812; EP
1419177 A2 EP 2002-754557 20020812; WO 2003016348 A2 WO 2002-DK531
20020812; EP 1419177 A2 WO 2002-DK531 20020812; JP 2005508892 W WO
2002-DK531 20020812; JP 2005508892 W JP 2003-521270 20020812
FDT EP 1419177 A2 Based on WO 2003016348 A; AU 2002321012 A1 Based on WO
2003016348 A; JP 2005508892 W Based on WO 2003016348 A
PRAI DK 2001-1217 20010814

L7 ANSWER 5 OF 12 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN

AB WO 2004042012 A2 UPAB: 20060203
NOVELTY -. Concentrating (M1) a macromolecule from an aqueous solution comprising the macromolecule and an organic polymer, comprises a first ultrafiltration step, adjustment of the retentate conductivity to prevent or reverse precipitation of solution components induced by the polymer, and a second ultrafiltration step to produce a concentrated solution.

DETAILED DESCRIPTION - Concentrating (M1) a macromolecule from an aqueous starting solution comprising the macromolecule and an organic polymer comprises:

(a) subjecting the aqueous starting solution to ultrafiltration to concentrate the macromolecule such that a first retentate solution is produced

(b) adjusting the conductivity of the first retentate solution such that precipitation of the solution components induced by the organic polymer is substantially prevented or substantially reversed to produce a second retentate solution; and

(c) subjecting the second retentate solution to ultrafiltration to further concentrate the macromolecule such that a concentrated solution is produced.

USE - (M1) is useful for concentrating a macromolecule (especially a protein) from an aqueous starting solution (e.g. a cell culture supernatant) which contains the macromolecule of interest and an organic polymer (claimed). The polymer is especially a nonionic block copolymer such as a member of the Pluronics(RTM) family.

ADVANTAGE - The method allows higher degrees of concentration with lower losses where a macromolecule has to be concentrated from an aqueous solution containing organic polymers such as other cell lysate components, and polymeric cell culture media supplements.

AN 2004-440519 [41] WPIDS

DNC C2004-165100 [41]

TI Concentrating a macromolecule from an aqueous solution of the macromolecule and an organic polymer (e.g. a media supplement) comprises two ultrafiltration steps with adjustment of retentate conductivity after the first ultrafiltration step

DC A96; B04; D16

IN KONSTANTINOV K; NGUYEN H T; VOGEL J H; NGUYEN H

PA (FARB-C) BAYER HEALTHCARE LLC; (KONS-I) KONSTANTINOV K; (NGUY-I) NGUYEN H;
(VOGE-I) VOGEL J H

CYC 105

PIA WO 2004042012 A2 20040521 (200441)* EN 42[18]

AU 2003287299 A1 20040607 (200469) EN
 EP 1596667 A2 20051123 (200577) EN
 JP 2006504525 W 20060209 (200612) JA 24
 AU 2003287299 A8 20051103 (200629) EN
 US 20060149042 A1 20060706 (200645) EN
 ADT WO 2004042012 A2 WO 2003-US34522 20031101; AU 2003287299 A1 AU 2003-287299
 20031101; AU 2003287299 A8 AU 2003-287299 20031101; EP 1596667 A2 EP
 2003-781532 20031101; EP 1596667 A2 WO 2003-US34522 20031101; JP
 2006504525 W WO 2003-US34522 20031101; JP 2006504525 W JP 2004-550265
 20031101; US 20060149042 A1 Provisional US 2002-422999P 20021101; US
 20060149042 A1 WO 2003-US34522 20031101; US 20060149042 A1 US 2005-532998
 20051110
 FDT AU 2003287299 A1 Based on WO 2004042012 A; EP 1596667 A2 Based on
 WO 2004042012 A; JP 2006504525 W Based on WO 2004042012 A; AU
 2003287299 A8 Based on WO 2004042012 A
 PRAI US 2002-422999P 20021101
 US 2005-532998 20051110

L7 ANSWER 3 OF 12 ANTE COPYRIGHT 2007 CSA on STN DUPLICATE 1

AB The purpose of this study was to evaluate the use of
 ultrafiltration and discontinuous diafiltration (DD) to
 obtain a protein concentrate from Atriplex lampa saltbush, improving its
 palatability by decreasing the salt content (mainly sodium and potassium
 chloride). The experimental work was done using a Pellicon(R) cassette
 (25 units) system equipped with polyethersulfone organic membranes with a
 molecular weight cut-off value of 10 kD. The characteristic of the
 membranes and the feed material, the parameters and operational
 conditions were studied in the pretreatment of the sample as well as in
 the ultrafiltration process to obtain a maximum performance.
 The product obtained contained 85% protein on aa dry weight basis and a
 marked decrease in salt content, from 40% in fresh leaves to 2.5% after
 processing by DD, which is in agreement with the average
 conductivity values observed, from 18.1 mS cm
 -1 in the initial aqueous alkaline extract to a final value of 3.5
 mS cm⁻¹. Measurements of normalized water permeability
 were determined after each wash cycle in order to verify the flow
 recovery through the membrane. Analysis of amino acids from the protein
 concentrate with a chemical score of 85.13 was calculated using a Food
 Agricultural Organization reference pattern (sulfur amino acids as
 limiting amino acids). Nitrogen retention was evaluated by means of a
 biological test and the following values were obtained: net protein
 utilization = 63.00 +/- 4.00, true digestibility = 79.00 +/- 5.21, and
 biological value = 79.80. The presence of oxalic acid, nitrates,
 saponins, phenolic compounds and condensate tannins is not significant.
 The results indicate that the concentrate obtained has a high content of
 lysine, making these products particularly useful as a complement for
 cereal flour, which is deficient in this amino acid. The determined
 values suggest that the product can be used in balanced animal feed
 formulation.

AN 2007055476 ANTE

DN 2007055785

TI Saltbush (Atriplex lampa) leaf protein concentrate by
 ultrafiltration for use in balanced animal feed formulations

AU Fernandez, Silvia S; Menendez, Carlos; Mucciarelli, Sara; Padilla,
 Antonio P
 eMail: apadilla@unsl.edu.ar

CS Departamento de Farmacia, Facultad de Quimica, Bioquimica y Farmacia,
 UNSL Argentina, (CONICET), C.C. 290, (5700) San Luis, Argentina

SO Journal of the Science of Food and Agriculture, vol. 87, no. 10, pp.
 1850-1857, 15 Aug. 2007, 20070815

Published by: John Wiley & Sons, Inc., 105 Third Ave., New York, NY,
 10016, USA, [cs-journals@wiley.co.uk], [http://www.interscience.wiley.com
]

ISSN: 0022-5142